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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511,253	04/25/2005	Jun-Hyun Chun	51876P737	51876P737 8754	
8791	7590 10/10/2006		EXAM	EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD			BERNSTEIN, ALLISON		
SEVENTH I			ART UNIT	PAPER NUMBER	
LOS ANGE	LES, CA 90025-1030		2824		
			DATE MAILED: 10/10/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)	_			
Allison Bomstein 2824 Allison Bomstein 2824 Allison Bomstein 2824 Allison Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. The product of the production of		10/511,253	CHUN, JUN-HYUN				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherlows for them may be evaluated under the provisions of 3 CPR 1.1869, in one went, however, may nety be through the communication of 3 CPR 1.1869, in one went, however, may nety be through the communication of 1 th NO parted for regly is specified above, the maximum statutory peads will apply and will expire SX (8) MONTHS from the mailing date of this communication. Pallure to report within the size of wented palend for neight is specified above, the maximum statutory peads will apply and will expire SX (8) MONTHS from the mailing date of this communication. Pallure to report within the size of weather and the mailing date of this communication, and the properties of the communication, which is a size of the size of the communication, which is a size of the size of the communication, which is a size of the mailing date of the communication, which is a size of the communication. **Status** 1) □ Responsive to communication(s) filled on □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Office Action Summary	Examiner	Art Unit				
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-23.27 and 28 is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 08 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * ○ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Discasure Statement(s) (PTO-948) 5) Notice of Informal Patent Application	Status						
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Art Unit: 2824

DETAILED ACTION

Claims 1-28 are pending in the application.

Information Disclosure Statement

Acknowledgment is made of applicant's Information Disclosure Statement (IDS), Form PTO-1449, filed 11 January 2005. The information therein was considered.

Drawings

Figure 4A should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

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On page 6 line 16, "wire-bonded each other..." should be replaced with --wire-bonded to each other--.

Also on page 16 lines 36, "the first embodiment of the preset" should be replaced with -- the first embodiment of the present--.

There are other grammatical errors within the claims that examiner has noticed.

Therefore, applicant is advised to correct other grammatical errors that he may become aware of within the specification and elsewhere in the application.

Appropriate correction is required.

Claim Objections

Claims 1, 24 and 25 are objected to because of the following informalities:

On page 16 line 6, "to be" should be replaced with --being--.

Also on page 16 line 8, "the" at the end of the line should be deleted.

On page 20 line17, "a 1st X 3rd column region" should be replaced with --a 1st row X 3rd column region--. Similar corrections should be made in lines 22, 27 and 32.

On page 21 line 4, "a X-decoder" should be replaced with --an X-decoder--.

There are other grammatical errors within the claims that examiner has noticed.

Therefore, applicant is advised to correct other grammatical errors that he may become aware of within the claims and elsewhere in the application.

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 24-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Ong et al. (5,999,480).
- 3. **Regarding claim 24,** Ong et al. disclose a semiconductor memory device having a semiconductor memory chip divided into 18 regions having an equal area in a 3 rows X 6 columns array, the semiconductor memory chip comprising: a first memory bank (12 in figure 6) including memory blocks arranged at one region selected from a 2nd row X 1st column region, a 2nd row X 2nd column region and a 2nd row X 3rd column region and at a 1st row X 1st column region, a 1st row X 2nd column region and a 1st row X 3rd column region; a second memory bank (below 12 in figure 6) including memory blocks arranged at one region selected from a 2nd row X 1st column region, a 2nd row X 2nd column region and a 2nd row X 3rd column region and at a 3rd row X 1st column region, a 3rd row X 2nd column region and a 3rd row X 3rd column region; a third memory bank (to the right of 12 in figure 6) including memory blocks arranged at one region selected from a 2nd row X 4th column region, a 2nd row X 5th column region and a 2nd row X 6th column region and at a 1st row X 4th column region, a 1st row X 5th column region and a 1st row X 6th column region; a fourth memory bank (diagonal from 12 in figure 6)

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including memory blocks arranged at one region selected from a 2nd row X 4th column region, a 2nd row X 5th column region and a 2nd row X 6th column region and at a 3rd row X 4th column region, a 3rd row X 5th column region and a 3rd row X 6th column region; and pads and control blocks (22 in figure 6) arranged at one region selected from the 2nd row X 1st column region, the 2nd row X 2nd column region, the 2nd row X 3rd column region, the 2nd row X 4th column region, the 2nd row X 5th column region and the 2nd row X 6th column region.

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- 4. **Regarding claim 25,** Ong et al. disclose the semiconductor device as recited in claim 24, wherein a X-decoder (30 in figure 6, see also 30 in figure 2) between the neighboring memory blocks in the same memory bank is shared each other.
- 5. **Regarding claim 26,** Ong et al. disclose the semiconductor device as recited in claim 24, wherein the pads (22 in figure 6) are arranged between the first and second banks and the third and fourth banks (see figure 6).

Allowable Subject Matter

- 6. Claims 1-23 and 27-28 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter:
- 8. **Regarding claims 1 and 27**, the prior art of record fails to teach or suggest the claimed limitations in combination, namely, that each memory bank has a non-rectangular shape. **Claims 2-23 and 28** depend on claims 1 and 27, respectively.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dosaka et al. (US 6,151,269) is cited to teach memory banks with shared row decoders. Kyung et al. (US 2003/0076702), Heightley et al. (US 6,741,488), and Yoo (US 5,970,002) are cited to teach memory banks with different size memory blocks.

When responding to this office action, applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner in locating appropriate paragraphs.

A shortened statutory period for response to this action is set to expire three months and zero days from the date of this letter. Failure to respond within the period for response will cause this application to become abandoned (see MPEP 710.02(b)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allison Bernstein whose telephone number is 571-272-9011. The examiner can normally be reached on Monday-Friday 7AM-4PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on 571-272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AB

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